

SEQUENCE LISTING

<110> Shipp, Margaret
 Aguiar, Ricardo
 Yakushijin, Yoshi

<120> LYMPHOMA ASSOCIATED MOLECULES AND USES THEREFOR

<130> DFN-031US

<140> US 09/830,762

<141> 2001-04-27

<150> PCT/US99/25439

<151> 1999-10-29

<150> US 60/106,383

<151> 1998-10-29

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<170> PatentIn Ver. 2.0

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Glu Thr Gly Ala Leu Gly Glu Asn Tyr Ser Trp Gln Ile Pro Ile Asn	
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Ile Phe Pro Gln Trp Arg Lys Gly Asn Thr Glu Glu Cys Leu Pro Tyr	
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Lys Cys Ser Glu Thr Gly Ala Leu Gly Glu Asn Tyr Ser Trp Gln Ile	
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Ala Gly Glu Ile Ala Val Thr Gly Ala Gly Arg Leu Pro Cys Lys Gln	
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Pro	Lys	Pro	Gln	Ile	Leu	Lys	His	Ala	Met	Lys	Glu	Cys	Leu	Glu	Lys		
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tgc	att	gag	caa	aat	ata	act	tcc	att	tcc	ttt	cct	gcc	ctt	ggg	act	1296	
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Gly Cys Ile Glu Met Gln Thr Thr Asp Val Ile Gly Asn Ser Gly Tyr	
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Tyr	Ser	Thr	Ser	Tyr	Asn	Pro	Val	Tyr	Gly	Ala	Gly	Ile	Tyr	Phe	Thr					
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Pro	Arg	Trp	Thr	Val	Thr	Asn	Ser	Gln	Thr	Ala	Ile	Glu	Leu	Leu	Lys	165	170	175	
Phe	Ala	Ile	Arg	Asn	Ile	Leu	Asp	Tyr	Val	Thr	Lys	Tyr	Asp	Leu	Arg	180	185	190	
Ile	Lys	Thr	Val	Ala	Ile	Pro	Ala	Leu	Ser	Ser	Gly	Ile	Phe	Gln	Phe	195	200	205	

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 Ser Asn Glu Asp Pro Thr Val Ala Ser Phe Lys Ser Ala Ser Glu Ser
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Thr	Phe	Gln	Arg	Tyr	Pro	Ala	Ser	Leu	Thr	Gln	Glu	Leu	Gln	Asp	Arg
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Phe	Thr	Lys	Ser	Leu	Lys	Asn	Leu	Ala	Asp	Lys	Val	Lys	Lys	Thr	Ser
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Ser	Thr	Asp	Lys	Leu	Ile	Tyr	Val	Phe	Glu	Ala	Glu	Val	Leu	Thr	Gly
				725					730					735	
Ser	Phe	Cys	Gln	Gly	Asn	Ser	Ser	Asn	Ile	Ile	Pro	Pro	Pro	Leu	Ser
			740					745					750		
Pro	Gly	Ala	Leu	Asp	Val	Asn	Asp	Ser	Val	Val	Asp	Asn	Val	Ser	Ser
		755					760					765			
Pro	Glu	Thr	Ile	Val	Val	Phe	Asn	Gly	Met	Gln	Ala	Met	Pro	Leu	Tyr
						775					780				
Leu	Trp	Thr	Cys	Thr	Gln	Asp	Arg	Thr	Phe	Ser	Gln	His	Pro	Met	Trp
785					790					795					800
Ser	Gln	Asp	Tyr	Ser	Ser	Gly	Pro	Gly	Met	Val	Ser	Ser	Leu	Gln	Ser
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Leu Glu Glu His Tyr Arg Trp Gln Ile Pro Ile Lys His Asn Val Phe
20 25 30
gaa att tta aag agc aat gag agt cag cta tgt gaa gtc ctc caa aat 144
Glu Ile Leu Lys Ser Asn Glu Ser Gln Leu Cys Glu Val Leu Gln Asn
35 40 45
aag ttt gga tgc atc tct acc ctg agc tgt cca act cta gca ggg agc 192
Lys Phe Gly Cys Ile Ser Thr Leu Ser Cys Pro Thr Leu Ala Gly Ser
50 55 60
agc tct cct gct cag aga gtc ttc aga agg acc ctg atc cct ggg ata 240
Ser Ser Pro Ala Gln Arg Val Phe Arg Arg Thr Leu Ile Pro Gly Ile
65 70 75 80
gag tta tct gtc tgg aag gat gac ctt acc aga cac gtt gtt gat gct 288
Glu Leu Ser Val Trp Lys Asp Asp Leu Thr Arg His Val Val Asp Ala
85 90 95
gtg gtg aac gca gcc aat gaa aac ctt ttg cat gga agt ggc ctg gcc 336
Val Val Asn Ala Ala Asn Glu Asn Leu Leu His Gly Ser Gly Leu Ala
100 105 110
gga agc ttg gtg aaa act ggt ggc ttt gaa atc caa gaa gag agc aaa 384
Gly Ser Leu Val Lys Thr Gly Gly Phe Glu Ile Gln Glu Glu Ser Lys
115 120 125
aga atc att gcc aac gtt ggt aaa atc tca gtt ggt gga atc gct atc 432
Arg Ile Ile Ala Asn Val Gly Lys Ile Ser Val Gly Gly Ile Ala Ile
130 135 140
acc ggt gcg ggg aga ctt cct tgc cat ttg att atc cat gcg gtt gga 480
Thr Gly Ala Gly Arg Leu Pro Cys His Leu Ile Ile His Ala Val Gly
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Pro	Arg	Trp	Thr	Val	Thr	Asn	Ser	Gln	Thr	Ala	Ile	Glu	Leu	Leu	Lys	
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ttt	gcc	att	agg	aac	att	cta	gat	tat	gtc	acc	aaa	tat	gat	cta	cgc	576
Phe	Ala	Ile	Arg	Asn	Ile	Leu	Asp	Tyr	Val	Thr	Lys	Tyr	Asp	Leu	Arg	
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att	aag	aca	gta	gca	att	cca	gcc	ctg	agc	tct	gga	att	ttc	cag	ttc	624
Ile	Lys	Thr	Val	Ala	Ile	Pro	Ala	Leu	Ser	Ser	Gly	Ile	Phe	Gln	Phe	
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cct	ctg	gat	ttg	tgt	aca	agc	ata	att	tta	gaa	act	atc	cgg	ctt	tat	672
Pro	Leu	Asp	Leu	Cys	Thr	Ser	Ile	Ile	Leu	Glu	Thr	Ile	Arg	Leu	Tyr	
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Phe	Gln	Asp	Lys	Gln	Met	Phe	Gly	Asn	Leu	Arg	Glu	Ile	His	Leu	Val	
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Ser	Asn	Glu	Asp	Pro	Thr	Val	Ala	Ser	Phe	Lys	Ser	Ala	Ser	Glu	Ser	
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Ile	Leu	Gly	Arg	Asp	Leu	Ser	Ser	Trp	Gly	Gly	Pro	Glu	Thr	Asp	Pro	
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gct	tcc	acc	atg	act	ctt	cgc	atc	ggc	cgg	ggc	ctg	act	ctc	cag	att	864
Ala	Ser	Thr	Met	Thr	Leu	Arg	Ile	Gly	Arg	Gly	Leu	Thr	Leu	Gln	Ile	
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Arg	Gln	Ala	Gly	Val	Glu	Met	Glu	Lys	Glu	Leu	Asp	Lys	Val	Asn	Leu	
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tcc	aca	gat	tat	caa	gag	gtg	tgg	gtc	aca	aaa	gga	ttt	aaa	ttg	tcc	1056
Ser	Thr	Asp	Tyr	Gln	Glu	Val	Trp	Val	Thr	Lys	Gly	Phe	Lys	Leu	Ser	
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Cys	Gln	Tyr	Val	Phe	His	Val	Ala	Trp	His	Ser	Gln	Ile	Asn	Lys	Tyr	
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cag	ata	ttg	aaa	gat	gca	atg	aag	tcc	tgt	cta	gaa	aaa	tgc	ctt	aaa	1152
Gln	Ile	Leu	Lys	Asp	Ala	Met	Lys	Ser	Cys	Leu	Glu	Lys	Cys	Leu	Lys	
	370					375					380					
cca	gat	ata	aat	tcc	att	tcc	ttt	cct	gct	ctc	ggg	aca	gga	ttg	atg	1200
Pro	Asp	Ile	Asn	Ser	Ile	Ser	Phe	Pro	Ala	Leu	Gly	Thr	Gly	Leu	Met	

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gat ttg aag aag agt	aca gca gct cag	ata atg ttt gag	gaa gtt ttt	1248
Asp Leu Lys Lys Ser	Thr Ala Ala Gln	Ile Met Phe Glu	Glu Val Phe	
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gca ttt gct aaa gag	cac aag gaa aaa	acg cta act gta	aag att gtg	1296
Ala Phe Ala Lys Glu	His Lys Glu Lys	Thr Leu Thr Val	Lys Ile Val	
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atc ttt cca gta gat	gtg gag acg tac	aag att ttt tat	gct gaa atg	1344
Ile Phe Pro Val Asp	Val Glu Thr Tyr	Lys Ile Phe Tyr	Ala Glu Met	
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aca aaa agg tcc aac	gag ctg aat ctc	agc ggt aat agt	ggt gct tta	1392
Thr Lys Arg Ser Asn	Glu Leu Asn Leu	Ser Gly Asn Ser	Gly Ala Leu	
	450	455	460	
gcc ctg cag tgg tcc	agt ggg gag caa	aga aga ggc ggc	ctt gaa gct	1440
Ala Leu Gln Trp Ser	Ser Gly Glu Gln	Arg Arg Gly Gly	Leu Glu Ala	
	465	470	475	480
gga tct cct gcc atc	aat ctc atg ggt	gta aaa gtg gga	gag atg tgt	1488
Gly Ser Pro Ala Ile	Asn Leu Met Gly	Val Lys Val Gly	Glu Met Cys	
	485	490	495	
gag gcc cag gaa tgg	att gaa agg ttg	ctg gtc tcc ctg	gac cac cac	1536
Glu Ala Gln Glu Trp	Ile Glu Arg Leu	Leu Val Ser Leu	Asp His His	
	500	505	510	
atc att gag aat aat	cat att ctc tat	ctt ggg aaa aaa	gag cac gac	1584
Ile Ile Glu Asn Asn	His Ile Leu Tyr	Leu Gly Lys Lys	Glu His Asp	
	515	520	525	
gtg ctg tct gag ctc	cag acc agc aca	aga gtc tcc att	tca gag act	1632
Val Leu Ser Glu Leu	Gln Thr Ser Thr	Arg Val Ser Ile	Ser Glu Thr	
	530	535	540	
gtc agt cca aga acg	gcc act ttg gag	att aaa ggt ccc	cag gct gac	1680
Val Ser Pro Arg Thr	Ala Thr Leu Glu	Ile Lys Gly Pro	Gln Ala Asp	
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ctc att gac gca gtt	atg agg att gaa	tgt atg ctg tgt	gac gtt cag	1728
Leu Ile Asp Ala Val	Met Arg Ile Glu	Cys Met Leu Cys	Asp Val Gln	
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gaa gaa gtg gca gga	aaa agg gag aaa	aat ctt tgg agc	ttg tca gga	1776
Glu Glu Val Ala Gly	Lys Arg Glu Lys	Asn Leu Trp Ser	Leu Ser Gly	
	580	585	590	
cag ggg acc aac cag	caa gaa aaa ctg	gat aaa atg gaa	gaa tca tac	1824
Gln Gly Thr Asn Gln	Gln Glu Lys Leu	Asp Lys Met Glu	Glu Ser Tyr	
	595	600	605	
aca ttt caa cga tac	cca gca tca ttaact	cag gaa ctt cag	gac cga	1872
Thr Phe Gln Arg Tyr	Pro Ala Ser Leu	Thr Gln Glu Leu	Gln Asp Arg	
	610	615	620	

aag Lys 625	aaa Lys	cag Gln	ttt Phe	gaa Glu	aag Lys 630	tgt Cys	ggc Gly	ttg Leu	tgg Trp	gtt Val 635	gtg Val	cag Gln	gtg Val	gag Glu	cag Gln 640	1920
ata Ile	gac Asp	aat Asn	aag Lys	gtg Val 645	ctg Leu	ctg Leu	gct Ala	gcc Ala	ttc Phe 650	caa Gln	gag Glu	aag Lys	aag Lys	aaa Lys 655	atg Met	1968
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